

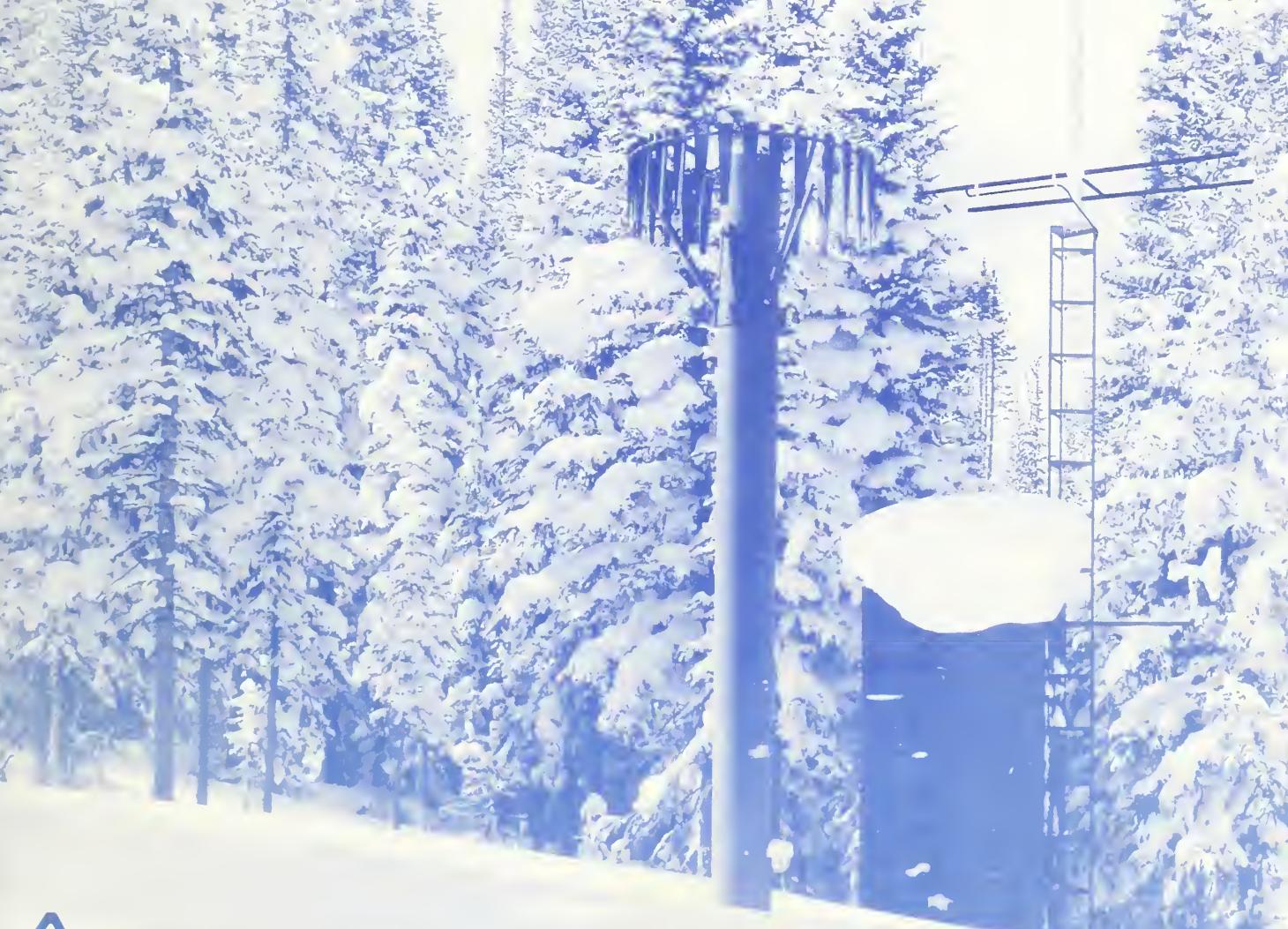
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# SNOW SURVEYS and WATER SUPPLY OUTLOOK for ALASKA



SOIL CONSERVATION SERVICE  
U.S. DEPARTMENT OF AGRICULTURE

Cooperating with

ALASKA SOIL CONSERVATION DISTRICT

AS OF  
MAR. 1, 1979

## TO RECIPIENTS OF WATER SUPPLY OUTLOOK REPORTS:

Most of the usable water in western states originates as mountain snowfall. This snowfall accumulates during the winter and spring, several months before the snow melts and appears as streamflow. Since the runoff from precipitation as snow is delayed, estimates of snowmelt runoff can be made well in advance of its occurrence. Streamflow forecasts published in this report are based principally on measurement of the water equivalent of the mountain snowpack.

Forecasts become more accurate as more of the data affecting runoff are measured. All forecasts assume that climatic factors during the remainder of the snow accumulation and melt season will interact with a resultant average effect on runoff. Early season forecasts are therefore subject to a greater change than those made on later dates.

The snow course measurement is obtained by sampling snow depth and water equivalent at surveyed and marked locations in mountain areas. A total of about ten samples are taken at each location. The average of these are reported as snow depth and water equivalent. These measurements are repeated in the same location near the same dates each year.

Snow surveys are made monthly or semi-monthly from January 1 through June 1 in most states. There are about 1900 snow courses in Western United States and in the Columbia Basin in British Columbia. Networks of automatic snow water equivalent and related data sensing devices, along with radio telemetry are expanding and will provide a continuous record of snow water and other parameters at key locations.

Detailed data on snow course and soil moisture measurements are presented in state and local reports. Other data on reservoir storage, summaries of precipitation, current streamflow, and soil moisture conditions at valley elevations are also included. The report for Western United States presents a broad picture of water supply outlook conditions, including selected streamflow forecasts, summary of snow accumulation to date, and storage in larger reservoirs.

Snow survey and soil moisture data for the period of record are published by the Soil Conservation Service by states about every five years. Data for the current year is summarized in a West-wide basic data summary and published about October 1 of each year.

*COVER PHOTO: VIEW OF A SNOTEL DATA SITE IN THE SNOWY RANGE IN WYOMING. TALL CYLINDRICAL DEVICE IS A PRECIPITATION GAGE. SNOW PILLOWS ON THE GROUND NOT VISIBLE DUE TO SNOW COVER. SHELTER HOUSE, ANTENNA TOWER, ANTENNA, AND TEMPERATURE UNIT ARE VISIBLE BEHIND THE PRECIPITATION GAGE.*

## PUBLISHED BY SOIL CONSERVATION SERVICE

The Soil Conservation Service publishes reports following the principal snow survey dates from January 1 through June 1 in cooperation with state water administrators, agricultural experiment stations and others. Copies of the reports for Western United States and all state reports may be obtained from Soil Conservation Service, West Technical Service Center, Room 510, 511 N.W. Broadway, Portland, Oregon 97209.

Copies of state and local reports may also be obtained from state offices of the Soil Conservation Service in the following states:

STATE	ADDRESS
Alaska	Room 129, 2221 East Northern Lights Blvd., Anchorage, Alaska 99504
Arizona	Room 3008, Federal Building, 230 N. First Ave., Phoenix, Arizona 85025
Colorado (N. Mex.)	P. O. Box 17107, Denver, Colorado 80217
Idaho	Room 345, 304 N. 8th. St., Boise, Idaho 83702
Montana	P. O. Box 98, Bozeman, Montana 59715
Nevada	P. O. Box 4850, Reno, Nevada 89505
Oregon	1220 S. W. Third Ave., Portland, Oregon 97204
Utah	4420 Federal Bldg., 125 South State St., Salt Lake City, Utah 84138
Washington	360 U. S. Court House, Spokane, Washington 99201
Wyoming	P. O. Box 2440, Casper, Wyoming 82602

## PUBLISHED BY OTHER AGENCIES

Water Supply Outlook reports prepared by other agencies include a report for California by the Snow Surveys Branch, California Department of Water Resources, P.O. Box 388, Sacramento, California 95802 --- for British Columbia by the Ministry of the Environment, Water Investigations Branch, Parliament Buildings, Victoria, British Columbia V8V 1X5 --- for Yukon Territory by the Department of Indian and Northern Affairs, Northern Operations Branch, 200 Range Road, Whitehorse, Yukon Territory Y1A 3V1 --- and for Alberta, Saskatchewan, and N.W.T. by the Water Survey of Canada, Inland Waters Branch, 110-12 Avenue S.W., Calgary, Alberta T3C 1A6.



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***SNOW SURVEYS***  
***AND***  
***WATER SUPPLY OUTLOOK***  
***FOR***  
***ALASKA***

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MEASURING SNOWPACK IN BROOKS RANGE

ALASKA SUMMARY  
as of  
MARCH 1, 1979

Very little snow fell during February as clear skies prevailed.

A heavy snowpack covers the southern half of the state. The only major exception is the Valdez area, which is significantly below normal. The rest of Southcentral and the Tanana River headwaters generally range from 20 to 50 percent above average. This is much greater than last year's snow cover. Some areas of the Copper River Basin are twice the normal amount.

The snowpack tapers off in the interior. Some areas such as Bettles and Fort Yukon are near average, while portions of the Brooks Range and White Mountains are as much as 20 to 50 percent below.

Area summaries are as follows:

#### Koyukuk Drainage

Very little data is in for the Koyukuk region. Bettles has approximately an average snowpack for March 1st. Anaktuvuk Pass is a little lower percentagewise.

#### Upper Yukon Drainages

Snow cover along the eastern Brooks Range is about 20 percent below normal. The snowpack gets heavier moving south, however. The Yukon Flats are near normal, while the Eagle vicinity is well above. Canada reports a highly variable snowpack in the Yukon headwaters. The northern part is very heavy while the southern lake region is apparently just the opposite. Most stations are well ahead of last year's March 1st readings.

#### Kuskokwim Drainage

Lake Minchumina indicates more snow than usual in the Kuskokwim headwaters. Farewell's snow, however, is slightly below average.

#### Tanana - Chena Drainage

The Tanana River headwaters down to Delta Junction is overlain by a heavy snow cover. The mountain passes are greater than 50 percent above average. The snowpack tapers off moving north, however, and the Chena River flow for the April-July period is expected to be below normal for the sixth straight year compared to the average of the last 15 years.

#### Copper Drainage

The Copper River Basin has the heaviest snowpack in the state percentage-wise. The basin as a whole is better than 50 percent above average for March 1st. A few areas like Lake Louise are only slightly above average, but other areas like Haggard Creek between Sourdough and Paxon are double the normal amounts.

#### Susitna Drainage

Snow cover is heavy throughout the Susitna Drainage, but especially so nearer Cook Inlet. It tapers off percentagewise moving north. The headwaters are approximately 15 to 20 percent above average. Willow is 60 percent above; Skwentna, 40 percent above; and Talkeetna 20 percent above.

#### Matanuska Drainage

The snow here is also very heavy, similar to the Copper and lower Susitna Drainages. Hatcher Pass is 50 percent above average.

### Upper Cook Inlet and Kenai Peninsula

The heavy snow cover of the Mat-Su and Copper Drainages decreases somewhat towards the Kenai Peninsula. Ship Creek should provide adequate domestic water for thirsty Anchorage during the spring and early summer. Flows are forecast 25 percent above normal during the snowmelt season, but this is based on at least average precipitation to come.

### Prince William Sound

The current snow cover around Valdez is 15 to 20 percent below average, a sharp contrast to the rest of the southcentral region. This is better than last year's amount, however.

### Southeast

The only reporting stations, all of which have limited record are on Douglas Island and near Petersburg.

Those on Douglas Island, near the Eaglecrest ski area, are estimated to be 30 percent above normal. This is just about twice as much snow as last year on March 1st.

## STREAMFLOW FORECASTS

BASIN, STREAM and/or FORECAST POINT	THIS YEAR			PAST RECORD		
	FORECAST		FORECAST PERIOD	THOUSAND ACRE FEET		Average +
	Thousand Acre Feet	Percent of Average		Last Year 2/		
YUKON RIVER at Eagle	31,155	93	April-July	Not Available	33,500*	
PORCUPINE RIVER near Ft. Yukon	6,660	90	April-July	5,770	7,400*	
SALCHA RIVER near Salchaket	623	92	April-July	382	677	
CHENA RIVER at Fairbanks	444	86	April-July	259	516	
LITTLE CHENA RIVER near Fairbanks	71	82	April-July	Not Available	87*	
YUKON RIVER at Ruby	64,900	100	April-July	47,276	64,700	
SHIP CREEK near Anchorage 1/	69	125	April-July	Not Available	55	
SOUTH FORK CAMPBELL CREEK at Canyon Mouth near Anchorage	16.2	132	April-July	Not Available	12.3	

1/ Measured flow adjusted for diversion.

2/ Provisional data, subject to revision.

+ 1964-1978 period.

\* Estimated.

## SNOW

DRAINAGE BASIN and/or SNOW COURSE	THIS YEAR			LAST YEAR			HISTORICAL AVERAGE +			
	Date of Survey	Snow Depth (inches)	Water Content (inches)	Snow Depth (inches)	Water Content (inches)	Snow Depth (inches)	Water Content (inches)	Years of Previous Record		
NAME	Number	Elevation								
AS OF FEBRUARY 15, 1979										
<u>TANANA-CHENA:</u>										
Caribou Mine	55	1115	N 0	S U R V E Y	37a	4.4e	26	4.7	10	
Cleary Summit	64	2230	2/14	24a	4.9e	21a	4.0e	5.8	10	
Little Chena Ridge	62	2200	2/14	24a	4.6e	20a	3.6e	5.0	10	
Lower Chena	59	2000	2/14	27a	5.53	18a	3.2e	--	2	
Mt. Ryan	61	2950	2/14	24a	5.2e	21a	3.8e	6.1	10	
Munson Ridge	56	3100	2/14	35a	9.3	34a	9.0e	38	9.5	
Teuchet Creek	57	1640	2/14	22a	4.3e	19a	3.6e	--	1	
Upper Chena	58	3000	2/14	34a	8.2e	22a	4.4e	30	6.7	10
AS OF MARCH 1, 1979										
<u>KOYUKUK DRAINAGE:</u>										
Anaktuvuk Pass	75	2100	2/26	15	2.6	24	4.9	18	3.0	10
Bettles Field	74	640	2/25	27	6.1	26	4.5	32	6.3	11
Cold Foot	109	1000	N 0	S U R V E Y	30	6.4	33	6.4	8	
Dietrich River	110	1550	N 0	S U R V E Y	23	4.0	23	3.8	8	
Lake Todatonten	73	980	N 0	S U R V E Y	20	3.5	25	4.9	10	
Prospect Creek	108	980	N 0	S U R V E Y	26	4.9	30	5.7	8	
Table Mountain	111	2200	N 0	S U R V E Y	28	5.9	23	3.9	7	
<u>YUKON DRAINAGE:</u>										
Arctic Village	78	2300	2/26	15	2.4	22	3.0	20	3.1	15
Black River	84	640	2/27	19	3.4	17	2.4	22	3.7	14
Boundary	90	3300	2/26	32a	5.8e	20a	3.3e	23	4.1	12
Chandalar Lake	76	2040	2/27	16	2.5	20	3.2	20	3.2	13
Chicken Airstrip	91	1650	2/26	21	3.6	13	1.8	16	2.5	14
Circle City	85	600	2/27	26	4.4	22	3.3	24	3.8	14
Circle Hot Springs	86	860	2/27	24	4.7	20	3.2	20	3.1	8
Coleen River	80	1100	2/26	14a	2.2e	NO SURVEY		18	2.8	13
Dempsey Creek	87	950	N 0	S U R V E Y	17a	2.6e	22	4.0	10	
Eagle Village	89	900	2/26	27	4.9	19	3.3	22	4.0	14
Five Mile Camp	106	400	N 0	S U R V E Y	26	4.4	25	4.4	8	
Fort Yukon	83	430	2/27	19	3.3	18	2.8	20	3.2	14
Koness Lake	79	1790	2/26	14	2.1	18	2.4	18	2.8	12

a - aerial marker reading e - estimated

+ For period of record.

## SNOW

DRAINAGE BASIN and/or SNOW COURSE			THIS YEAR			LAST YEAR		HISTORICAL AVERAGE +		
			Date of Survey	Snow Depth (inches)	Water Content (inches)	Snow Depth (inches)	Water Content (inches)	Snow Depth (inches)	Water Content (inches)	Years of Previous Record
NAME	Number	Elevation								
<u>YUKON DRAINAGE Continued</u>										
Log Cabin (B.C.)	105	2880	2/24	40	10.3	34	8.0	43	11.5	18
Mt. Fairplay	92	3100	2/26	28a	5.1e	15a	2.3e	18	3.3	9
Nation River	88	3050	2/26	32a	5.8e	17a	3.0e	26	5.2	6
Squaw Lake	77	2150	2/26	14a	2.2e	20a	3.2e	20	3.2	12
Thirty Mile	107	1300	N 0	S U R	V E Y	31	6.1	32	6.3	4
Venetie	82	610	N 0	S U R	V E Y	19a	2.9e	17	2.7	14
Vundik Lake	81	950	2/26	14a	2.2e	17a	2.5e	17	2.7	11
<u>KUSKOKWIM DRAINAGE:</u>										
Farewell Lake	70	1090	2/25	15	2.6	14	2.3	16	2.9	11
Lake Minchumina	71	730	2/25	24	4.8	16	2.1	20	3.6	12
<u>TANANA-CHENA:</u>										
Big Delta	52	980	2/27	18	3.2	18	3.3	17	2.8	18
Bonanza Creek	66	1150	2/27	22	4.1	16	2.9	22	4.1	11
Caribou Creek	68	1440	3/1	22	4.0	16	2.9	21	5.3	8
Caribou Mine	55	1115	3/1	27	4.8	22	4.6	24	4.9	13
Caribou Snow Pillow	69	1025	3/1	20	4.0	16	2.7	20	3.8	8
Cleary Summit	64	2230	2/27	26	4.9	21	4.1	28	5.7	18
Colorado Creek	63	750	2/22	25	4.7	17	3.2	23	4.5	13
Fielding Lake	49	3000	2/26	48	14.7	45	11.6	40	9.0	16
Fort Greely	50	1420	2/27	21	3.8	19	3.6	17	3.0	12
French Creek	53	2010	2/28	26	5.7	22	4.8	27	5.6	16
Granite Creek	51	1240	2/27	21	4.2	18	3.0	16	2.9	11
Haystack Mountain	67	1950	3/1	26	4.9	22	4.7	27	5.6	8
Jack River	138	2450	3/1	19	3.6	--	--	--	--	--
Little Chena Bottom	New	1100	3/1	23	3.8	17	3.0	--	--	--
Little Chena Ridge	62	2200	N 0	S U R	V E Y	20	3.7	26	5.2	14
Little Chena Slope	New	1460	N 0	S U R	V E Y	19	3.1	--	--	1
Little Salcha	54	1500	2/28	26	5.8	18	3.7	24	5.0	16
Lower Chena	59	2000	N 0	S U R	V E Y	18	3.3	30	7.0	3
Mentasta Pass	47	2430	2/26	39	9.8	19	3.6	25	4.9	16
Monument Creek	60	1900	N 0	S U R	V E Y	21	4.2	23	4.4	5
Mt. Ryan	61	2950	N 0	S U R	V E Y	22	3.9	29	6.1	14
Munson Ridge	56	3100	3/1	37	9.5	34	9.3	40	10.3	14
Teuchet Creek	57	1640	3/1	25	4.8	20	3.8	20	3.8	6
Tok Junction	46	1650	2/26	29	4.1	14	2.1	18	3.0	18
Upper Chena	58	3000	N 0	S U R	V E Y	22	4.7	30	7.2	10
Wien Lake	72	1020	2/25	24	4.8	16	2.9	20	3.5	11
Yak Pasture	65	540	2/27	22	3.5	19	3.6	22	4.1	17
<u>COPPER RIVER:</u>										
Haggard Creek	48	2540	2/26	47	12.5	26	5.2	26	5.2	13
Little Nelchina	31	4160	3/2	29a	5.5e	25a	4.7e	23	4.5	11
Mankomen Lake	45	3050	N 0	S U R	V E Y	26	4.5	30	5.8	12
St. Anne Lake	28	1990	3/2	23	4.2	20	3.7	22	4.3	14
Sanford River	27	2280	3/1	34	7.6	27	5.3	23	4.6	12
Tsaina River	35	1500	3/1	44	12.5	47	11.2	52	13.6	6
Worthington Glacier	36	2400	3/1	48	17.1	63	15.5	57	16.9	12

+ FOR PERIOD OF RECORD

## SNOW

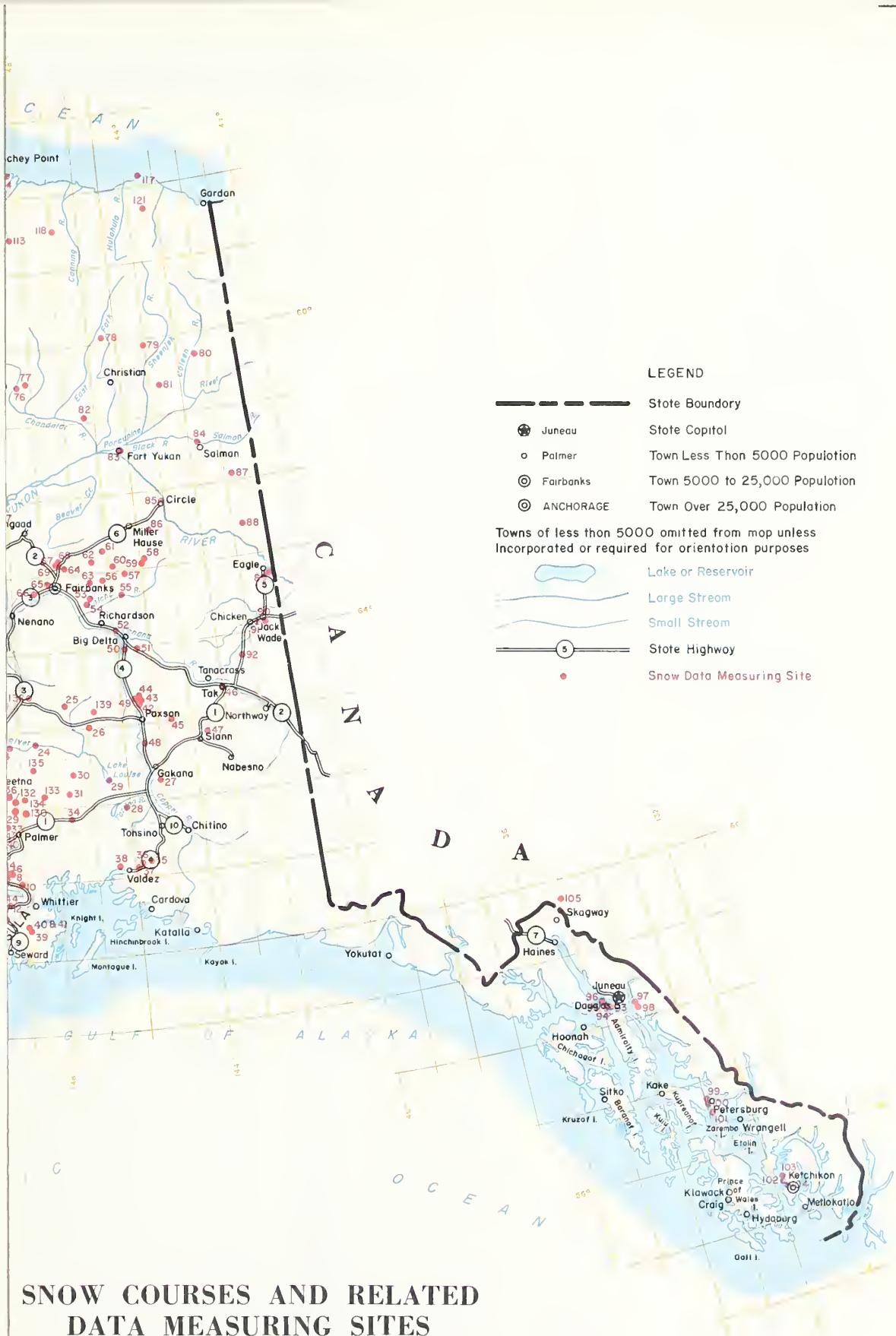
DRAINAGE BASIN and/or SNOW COURSE			THIS YEAR			LAST YEAR			HISTORICAL AVERAGE +				
NAME	Number	Elevation	Date of Survey	Snow Depth (inches)	Water Content (inches)	Snow Depth (inches)	Water Content (inches)	Snow Depth (inches)	Water Content (inches)	Years of Previous Record			
<b>MATANUSKA-SUSITNA:</b>													
Alexander Lake	18	200	3/1	46a	12.9e	26	5.5	39	9.4	15			
Bald Mountain Lake	23	2150	3/1	19a	4.4e	21a	4.6e	28	6.0	14			
Chelatna Lake	20	1650	3/1	35a	10.0e	33a	6.6e	37	8.4	15			
Clearwater Lake	26	3100	3/1	33a	7.3e	23	4.3	24	4.6	13			
Devils Canyon	124	1350	3/1	30a	6.9e	19a	3.6e	--	---	2			
Fog Lakes	24	2250	3/1	27	5.5	17a	2.9e	25	5.0	9			
Independence Mine	33	3300	2/26	60	22.1	35	9.7	54	14.7	12			
Lake Louise	29	2400	3/2	23	4.0	22	3.9	21	3.6	14			
Monahan Flat	25	2710	3/1	35	7.8	30	6.7	30	6.2	14			
Oshetna Lake	30	2950	3/2	23	3.8	17	3.0	19	3.3	14			
Peters Hills	21	2010	3/1	43a	12.5e	40a	8.4e	52	12.1	11			
Sheep Mountain	34	2900	2/27	30	6.2	21	4.6	23	4.4	6			
Skwentna	19	160	3/1	43	13.1	29	6.8	37	8.3	12			
Talkeetna	22	350	3/1	30	8.1	21	5.0	30	6.7	12			
Willow Airstrip	31	150	3/2	36	9.8	25	5.7	28	6.0	15			
<b>UPPER COOK INLET:</b>													
Arctic Ski Bowl	5	3000	2/27	47	18.5	23	6.5	34	10.1	15			
Arctic Valley #1	1	500	2/27	19	3.6	16	3.8	14	2.9	15			
Arctic Valley #2	2	1000	2/27	21	4.9	18	4.0	14	3.0	15			
Arctic Valley #3	3	2030	2/27	31	9.2	25	5.4	25	5.3	15			
Arctic Valley #4	4	2330	2/27	32	9.6	22	5.5	26	5.8	15			
Bird Creek	8	2350	N 0	S U R V E Y	46	13.6	46	13.9	12				
Indian Pass	7	2350	3/1	60	21.6	56	17.0	60	17.4	12			
McArthur	17	120	N 0	S U R V E Y	34a	10.2e	62	16.7	13				
Mt. Alyeska	10	1200	3/2	63	21.3	130	42.2	113	33.4	6			
Ship Creek	6	1750	3/1	37	11.7	34	8.6	36	8.9	12			
South Campbell Creek	9	1200	N 0	S U R V E Y	22	5.1	27	5.7	5				
<b>PRINCE WILLIAM SOUND:</b>													
Lowe River	37	550	3/1	43	12.3	42	10.4	50	14.3	6			
Valdez	38	50	3/1	42	12.3	40	10.9	51	15.7	6			
<b>KENAI PENINSULA:</b>													
Bertha Creek	11	850	3/1	46	12.5	61	17.7	46	12.7	9			
Bridge Creek, Lower	16	1100	3/1	40	12.3	47	11.4	42	11.0	7			
Bridge Creek, Upper	15	1300	3/1	41	12.5	48	11.7	41	10.7	7			
Demonstration Forest	147	770	3/1	33	9.1	N O SURVEY	--	--	---	2			
Fox Creek	145	1500	2/25	33	8.4	--	--	--	---	--			
Jean Lake	14	620	3/1	17	3.5	15	3.6	14	2.8	9			
Kenai Summit	12	1390	3/1	39	10.1	49	12.3	42	10.3	9			
Moose Pass	13	700	3/1	23	5.6	18	6.7	19	4.7	9			
Pass Creek	144	1200	2/26	30	7.0	--	--	--	---	--			
Resurrection Pass	146	2250	2/25	32	9.4	--	--	--	---	--			
<b>SOUTHEAST ALASKA:</b>													
Cropley Lake	94	1650	3/5	85	34.0	44	17.2	--	---	2			
Douglas Ski Bowl	93	1640	DISCONTINUED		NO SURVEY	96	35.5	10					
Eagle Crest	95	1000	3/6	64	24.0	33	12.6	--	---	2			
Fish Creek	96	500	3/6	36	10.0	26	8.1	--	---	2			
Harriet Top	102	2000	DISCONTINUED		NO SURVEY	149	53.1	4					
a - aerial marker reading    e - estimated													
+ FOR PERIOD OF RECORD													

## SNOW

DRAINAGE BASIN and/or SNOW COURSE			THIS YEAR			LAST YEAR		HISTORICAL AVERAGE +		
			Date of Survey	Snow Depth (inches)	Water Content (inches)	Snow Depth (inches)	Water Content (inches)	Snow Depth (inches)	Water Content (inches)	Years of Previous Record
NAME	Number	Elevation								
<u>SOUTHEAST ALASKA Continued</u>										
Hunt Saddle	103	1500	N	S U R V E Y		NO SURVEY		116	40.9	4
Lake Shore	104	660	N	S U R V E Y		NO SURVEY		75	28.2	4
Pet Ridge North	New	1600	2/23	101	32.5	--	--	--	--	--
Pet Ridge South	New	1650	2/23	101	34.2	--	--	--	--	--
Petersburg Reservoir	99	550	2/27	73	17.7	--	--	--	--	--
Speel River	98	280	N	S U R V E Y		60	20.0	85	29.0	13
<u>WYOMING PRECIPITATION GAGES</u>										
<u>BROOKS RANGE:</u>										
Atigun Camp	125	3400	10/7 12/6	I N I T I A L	READING	INCRE- MENT SINCE LAST READING		ACCUMU- LATIVE TOTAL		
Atigun Pass	123	4900	10/7 12/12	I N I T I A L	READING	2.2	2.2			
Chandalar Shelf	122	3400	10/6 12/6	I N I T I A L	READING	3.5	3.5			
<u>NORTH SLOPE:</u>										
Barrow	115	15	10/1 11/1 12/3 2/1	I N I T I A L	READING	0.7	0.7			
Barter Island	117	15	8/25 11/29 1/12	I N I T I A L	READING	2.9	2.9			
Jago River	121	550	8/25	I N I T I A L	READING	0.5	3.4			
Kavik River	118	200	8/24	I N I T I A L	READING					
Meade River	116	200	10/1 11/1 2/10	I N I T I A L	READING	1.0	1.0			
Prudhoe Bay	114	30	9/26 10/27 12/5 1/3 2/1 3/1	I N I T I A L	READING	0.4	1.4			
Sagwon	113	1000	10/7 12/12	I N I T I A L	READING	1.0	1.0			
Toolik River	112	3100	10/7 12/12	I N I T I A L	READING	0.5	2.5			
				I N I T I A L	READING	0.5	3.0			
				I N I T I A L	READING	0.1	3.1			
<u>SEWARD PENINSULA:</u>										
Candle	119	20	8/24	I N I T I A L	READING					
a - aerial marker reading e - estimated										

+ FOR PERIOD OF RECORD

1589-79

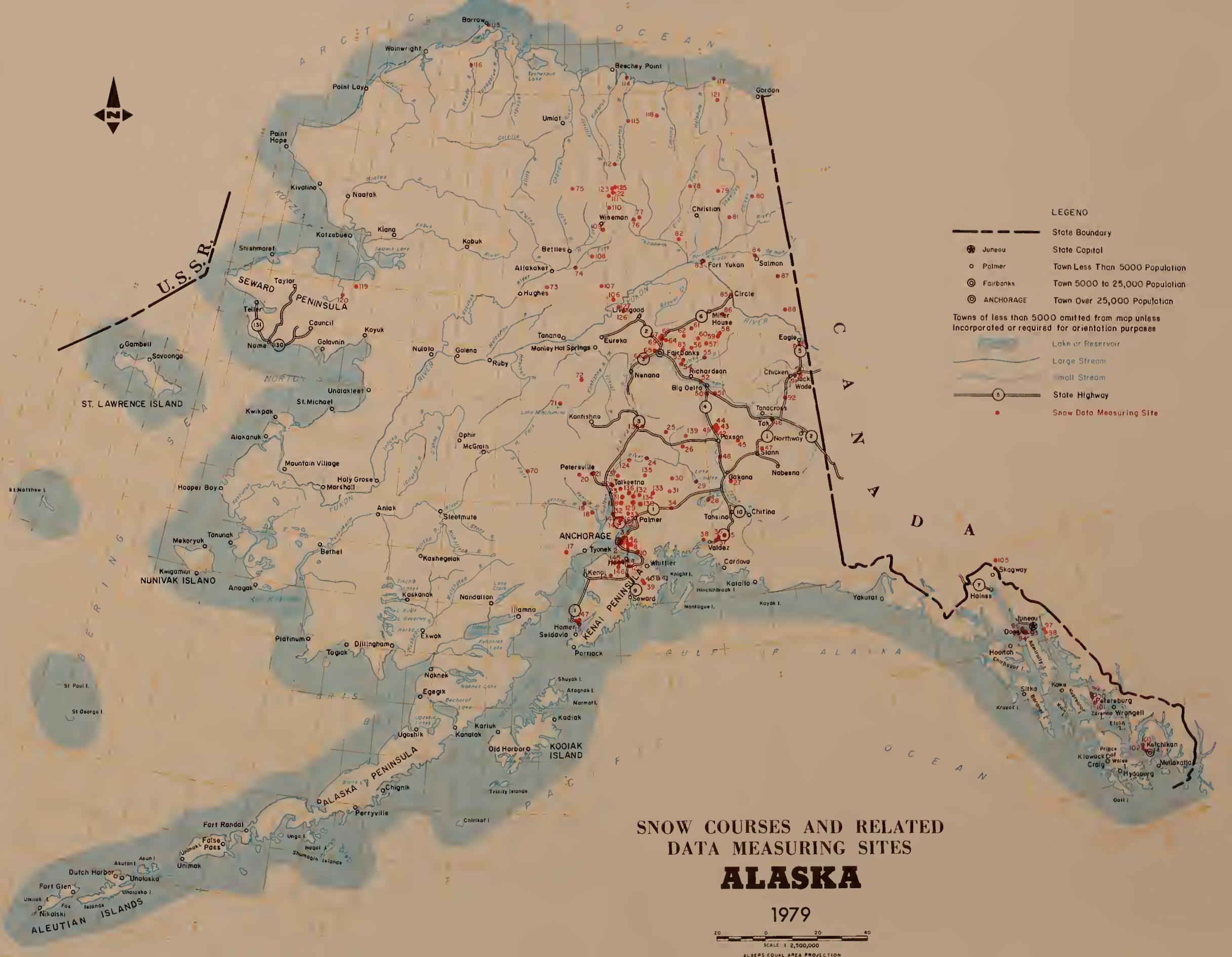


# **SNOW COURSES AND RELATED DATA MEASURING SITES ALASKA**

1979

20 0 20 40  
SCALE 1,2,500,000  
ALBERS EQUAL AREA PROJECTION





MAP NO.	COURSE NAME	DATES *	MEAS. * BY
1	Arctic Valley #1		a
2	Arctic Valley #2		a
3	Arctic Valley #3		a
4	Arctic Valley #4		a
5	Arctic Ski Bowl	,7	a
6	Ship Creek		a
7	Indian Pass	,7	a
8	Bird Creek	,7	a
9	South Campbell Creek	,7	a
10	Mt. Alyeska	,7	a
11	Bertha Creek		a
12	Kenai Summit		a
13	Moose Pass		a
14	Jean Lake	,7	a
15	Bridge Creek (UP)		a
16	Bridge Creek (LO)	,7	a
17	McArthur	,5	a
18	Alexander Lake	,5	b
19	Skwentna	,3,4	b
20	Chelatna Lake	,3,4	b
21	Peters Hills	,3,4	b
22	Talkeetna	,5,6,7	e
23	Bald Mtn. Lake	,5,6,7	e
24	Fog Lakes	,4,5	b
25	Monahan Flat	,4,5	b
26	Clearwater Lake	,4,5	b
27	Sanford River	,5	b
28	St. Anne's Lake	,5	b
29	Lake Louise	,5	b
30	Oshetna Lake	,5	e
31	Little Nelchina	,4,5	i
32	Willow Airstrip	,4,5	i
33	Independence Mine	,4,5	i
34	Sheep Mountain	,3,4	i
35	Tsaina River	,4,5	i
36	Worthington Glacier	,4,5	i
37	Lowe River		d
38	Valdez		d
39	Wolverine Glacier (		h
40	Wolverine Glacier (		h
41	Wolverine Galcier C		h
42	Gulkana Glacier A		h
43	Gulkana Glacier B		h
44	Gulkana Glacier C		a,f
45	Mankomen Lake		a,f
46	Tok Junction		h
47	Mentasta Pass		d
48	Haggard Creek		d
49	Fielding Lake	,4,5	a,c
50	Ft. Greely		a,d,f
51	Granite Creek	,4,5	f
52	Big Delta	,4,5	f
53	French Creek	,5	a
54	Little Salcha	,5	a
55	Caribou Mine	,5	a
56	Munson Ridge	,5	a
57	Teuchet Creek	,5	a
58	Upper Chena	,5	a
59	Lower Chena	,5	a
60	Monument Creek	,5	a
61	Mt. Ryan	,5	a
62	Little Chena	,5	a
63	Colorado Creek	,4,5	a,c
64	Cleary Summit	,4,5	a,c
65	Yak Pasture	,4,5	a
66	Bonanza Creek	,4,5	a
67	Haystack Mtn.	,4,5	a
68	Caribou Creek	,4,5	a
69	Poker Creek	,3,4	b
70	Farewell Lake	,3,4	b
71	Lake Minchumina	,3,4	b
72	Wien Lake	,4,5	a
73	Lake Todatonten		
74	Bettles Field		
75	Anaktuvuk Pass		

#### LEGEND

\* Numerals refer to specific dates:

Numerals 1 = January 1  
 2 = February 1  
 3 = March 1  
 4 = April 1  
 5 = May 1  
 6 = June 1  
 7 = Special dates

\*\* Letters refer to Agency that secures the snow survey,

a. - Sail Conservation Service  
 b. - Forest Service  
 c. - U.S. Army Corps. of Engineers  
 d. - U.S. Army Cold Regions Research and Engineering Lab  
 e. - Alaska Power Administration  
 f. - Bureau of Land Management  
 g. - U.S. Geological Survey  
 h. - U.S. Fish and Wildlife Service  
 i. - Naval Arctic Research Lab

\*\*\* Letters following the snow course number refer to:

A. - Snow Course and Aerial Stadia Marker  
 a. - Aerial Stadia Marker only  
 M. - Sail Moisture Station  
 P. - Precipitation Storage Gage  
 S. - Snow Pillow  
 T. - Radio Telemetered

# AGENCIES AND ORGANIZATIONS COOPERATING IN ALASKA SNOW SURVEYS

## CANADA

Department of Indian and Northern Affairs, Northern  
Natural Resources and Environment, Yukon Territory

## FEDERAL

Department of Agriculture  
Forest Service  
Institute of Northern Forestry  
Tongass National Forest  
Chugach National Forest  
Soil Conservation Service

Department of Commerce  
NOAA National Weather Service

Department of Defense  
U.S. Army Corps of Engineers  
U.S. Army Cold Regions Research and Engineering Laboratory

Department of Interior  
Bureau of Land Management  
Geological Survey  
Alaska Power Administration  
Fish and Wildlife Service

## STATE

Alaska Department of Fish and Game  
Alaska Department of Highways  
Alaska Department of Natural Resources, Division of Parks  
Alaska Association of Soil Conservation Sub-districts  
Alaska Soil Conservation District  
University of Alaska  
Alaska Experiment Station  
Geophysical Institute

## MUNICIPALITIES

Municipality of Anchorage

## PRIVATE

Mt. Alyeska Resort, Inc.  
NANA Regional Corporation



# INDEX OF ALASKA SNOW COURSES

MAP NO.	COURSE NAME	COURSE NO. *	ELEV.	LAT.	LONG.	MEAS. DATES *	MEAS. BY *	MAP NO.	COURSE NAME	COURSE NO. *	ELEV.	LAT.	LONG.	MEAS. DATES *	MEAS. BY *
1	Arctic Valley #1	49MM1	500	61°13'N	149°40'W	2,3,4,5	c	76	Chandalar Lake	48SS1A	2040	67°30'N	148°30'W	3,4	a
2	Arctic Valley #2	49MM2	1000	61°13'N	149°37'W	2,3,4,5	c	77	Squaw Lake	48SS2a	2150	67°33'N	148°15'W	3,4	a
3	Arctic Valley #3	49MM3	2030	61°14'N	149°35'W	2,3,4,5	c	78	Arctic Village	45TT1A	2300	68°05'N	145°35'W	3,4	a
4	Arctic Valley #4	49MM4	2330	61°14'N	149°33'W	2,3,4,5	c	79	Koness Lake	44SS1A	1790	67°55'N	144°08'W	3,4	a
5	Arctic Ski Bowl	49MM5	3000	61°15'N	149°31'W	2,3,4,5	c	80	Goleen River	42SS1A	1100	67°44'N	142°28'W	3,4,7	a
6	Ship Creek	49MM7MPS	1750	61°08'N	149°28'W	2,3,4,5	a	81	Vundik Lake	43SS1a	950	67°23'N	143°45'W	3,4	a
7	Indian Pass	49MM8A	2350	61°05'N	149°29'W	2,3,4,5	a	82	Venetie	46SS1A	610	67°03'N	146°25'W	3,4,7	a
8	Bird Creek	49MM6A	2350	61°06'N	149°20'W	2,3,4,5,7	a	83	Fort Yukon	45RR1AM	430	66°35'N	145°15'W	3,4,7	a
9	South Campbell Creek	49MM11	1200	61°08'N	149°42'W	2,3,4,5	a	84	Black River	42RR1A	650	66°36'N	142°45'W	3,4,7	a
10	Mt. Alyeska	49LL15S	1200	60°57'N	149°05'W	2,3,4,5	a,b	85	Circle City	44QQ3A	600	65°50'N	144°05'W	3,4,7	a
11	Bertha Creek	49LL2	850	60°45'N	149°51'W	2,3,4,5	a	86	Circle Hot Springs	44QQ5	860	65°29'N	144°39'W	3,4	a
12	Kenai Summit	49LL3	1390	60°40'N	149°28'W	2,3,4,5	a	87	Dempsey Creek	41RR2A	950	66°06'N	141°48'W	3,4	a
13	Moose Pass	49LL4	700	60°31'N	149°30'W	2,3,4,5	a	88	Nation River	41QQ1a	3050	65°25'N	141°40'W	3,4	a
14	Jean Lake	50LL1	620	60°31'N	150°11'W	2,3,4,5	a	89	Eagle Village	41PP1A	900	64°08'N	141°08'W	3,4,7	a
15	Bridge Creek (UP)	51KK1	1300	59°42'N	151°28'W	3,4,5	a	90	Boundary	41PP3A	3300	64°05'N	141°27'W	3,4	a
16	Bridge Creek (LO)	51KK2	1100	59°40'N	151°32'W	3,4,5	a	91	Chicken Airstrip	41PP2A	1650	64°05'N	141°45'W	3,4,7	a
17	McArthur	52LL1A	120	61°00'N	152°00'W	2,3,4,5	a,c	92	Mt. Fairplay	42001a	3100	63°42'N	142°17'W	3,4,5	a
18	Alexander Lake	50MM1A	200	61°45'N	150°54'W	2,3,4,5	a,c	93	Douglas Ski Bowl	34JJ1	1640	58°16'N	134°27'W	3,4,5	b
19	Skwentna	51MM1A	160	61°58'N	151°12'W	2,3,4,5	a,c	94	Cropley Lake	34JJ2	1650	58°16'N	134°31'W	1,2,3,4	b
20	Chelatna Lake	51NN1a	1650	62°31'N	151°29'W	2,3,4,5	a,c	95	Eagle Crest	34JJ3	1000	58°17'N	134°32'W	1,2,3,4	b
21	Peters Hills	50NN1a	2010	62°31'N	150°57'W	2,3,4,5	a,c	96	Fish Creek	34JJ4	500	58°19'N	134°33'W	1,2,3,4	b
22	Talkeetna	50NN2	350	62°18'N	150°05'W	2,3,4,5	a,c	97	Upper Long Lake	33JJ2aS	1000	58°11'N	133°53'W	3,4,5,6,7	e
23	Bald Mtn. Lake	49NN1A	2150	62°15'N	149°45'W	2,3,4,5	a,c	98	Speel River	33JJ3A	280	58°09'N	133°43'W	3,4,5,6,7	e
24	Fog Lakes	48NN2A	2250	62°47'N	148°29'W	2,3,4,5	a,c	99	Petersburg Reservoir	32HH1	550	56°47'N	132°56'W	2,3,4,5	b
25	Monahan Flat	47001A	2710	63°18'N	147°39'W	2,3,4,5	a,c	100	Mitkof Island	32HH2	1050	56°46'N	132°56'W	2,3,4,5	b
26	Clearwater Lake	46NN1A	3100	62°59'N	146°58'W	2,3,4,5	a,c	101	Crystal Lake	32HH3	1375	56°36'N	132°50'W	2,3,4,5	b
27	Sanford River	45NN2A	2280	62°13'N	145°04'W	2,3,4,5	a,c	102	Harriet Top	31GG1	2000	55°29'N	131°37'W	3,4,5	b
28	St. Anne's Lake	46MM1A	1990	61°53'N	146°03'W	2,3,4,5	a,c	103	Hunt Saddle	31GG2	1500	55°30'N	131°37'W	3,4,5	b
29	Lake Louise	46NN2A	2400	62°17'N	146°30'W	2,3,4,5	a,c	104	Lake Shore	31GG3	660	55°29'N	131°36'W	3,4,5	b
30	Oshetna Lake	47NN1A	2950	62°23'N	147°29'W	2,3,4,5	a,c	105	Log Cabin (B.C.)	34KK1	2880	59°45'N	134°58'W	3,4,5	e
31	Little Nelchina	47NN2a	4160	62°07'N	147°36'W	2,3,4,5	a,c	106	Five Mile Camp	49RR1	400	65°55'N	149°48'W	2,3,4,5	i
32	Willow Airstrip	50MM2	150	61°45'N	150°03'W	2,3,4,5	a,c	107	Thirty Mile	50RR2a	1300	66°13'N	150°15'W	2,3,4,5	i
33	Independence Mine	49MM10	3300	61°45'N	149°25'W	3,4,5	a	108	Prospect Creek	50RR1	980	66°47'N	150°45'W	2,3,4,5	i
34	Sheep Mountain	47MM2	2900	61°47'N	147°30'W	3,4,5	a	109	Cold Foot Camp	50SS1	1000	67°16'N	150°10'W	1,2,3,4	i
35	Tsaina River	45MM4	1500	61°12'N	145°30'W	3,4,5	a	110	Dietrich Camp	49SS1A	1550	67°42'N	149°45'W	2,3,4,5	i
36	Worthington Glacier	45MM2	2400	61°10'N	145°45'W	3,4,5	a	111	Table Mountain	49SS3a	2200	67°58'N	149°45'W	2,3,4,5	i
37	Lowe River	45MM3	550	61°06'N	145°50'W	3,4,5	a	112	Toolik River	49TT1	3100	68°37'N	149°26'W	7	d
38	Valdez	46MM2	50	61°08'N	146°20'W	2,3,4,5	a	113	Sagwon	48UU1	1000	69°26'N	148°34'W	7	d
39	Wolverine Glacier (A)	48LL1	2130	60°23'N	148°54'W	1,2,4,5,6,7	8	114	Prudhoe Bay	48VV1	30	70°15'N	148°30'W	7	h
40	Wolverine Glacier (B)	48LL2	3610	60°25'N	148°55'W	2,3,4,5,6,7	8	115	Barrow	56WW1	15	71°20'N	156°40'W	7	h
41	Wolverine Glacier C	48LL3	4430	60°25'N	148°55'W	1,2,4,6,7	g	116	Meade River	57VV1	200	70°29'N	157°25'W	7	h
42	Gulkana Glacier A	45006	4590	63°15'N	145°29'W	2,3,4,5,6,7	8	117	Barter Island	43VV1	15	70°08'N	143°37'W	7	h
43	Gulkana Glacier B	45007	5480	63°17'N	145°26'W	2,3,4,5,6,7	8	118	Kavik River	47UU1	200	69°30'N	147°00'W	7	h
44	Gulkana Glacier C	45008	6360	63°19'N	145°29'W	5,6,7	8	119	Gandle	61QQ1	20	66°55'N	161°56'W	3,4	a,f
45	Mankomen Lake	44NN1	3050	63°00'N	144°32'W	2,3,4,5	a	120	Kugruk River	62QQ1	225	65°40'N	162°27'W	3,4	a,f
46	Tok Junction	43001	1650	63°18'N	143°00'W	2,3,4,5	a	121	Jago River	43UU1	550	69°42'N	143°36'W	7	h
47	Mentasta Pass	43NN1	2430	62°51'N	143°30'W	2,3,4,5	a	122	Chandalar Shelf	49TT2	3400	68°05'N	149°29'W	7	d
48	Haggard Creek	45NN1A	2540	62°42'N	145°28'W	2,3,4,5	a	123	Atigun Pass	49TT3	4900	68°08'N	149°35'W	7	d
49	Fielding Lake	45001A	3000	63°18'N	145°33'W	2,3,4,5	a	124	Devils Canyon	49NN2a	1350	62°49'N	149°18'W	2,3,4,5	a,c
50	Ft. Greely	45005	1420	63°57'N	145°45'W	1,2,3,4,5,7	a	125	Atigun Camp	49TT4P	3400	68°10'N	149°26'W	7	a,d,f
51	Granite Creek	45004	1240	63°57'N	145°24'W	1,2,3,4,5,7	a	126	Hess Creek	49QQ1	1000	65°46'N	149°23'W	2,3,4,5	f
52	81g Delta	45PP1	980	64°14'N	145°58'W	2,3,4,5	a								

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